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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/766,468	01/29/2004	Kheng Chiong Tay	07044.0002	3727	
	7590 03/08/2007 ENDERSON, FARABOW	EXAMINER			
LLP		REAMES, MATTHEW L			
901 NEW YORK AVENUE, NW WASHINGTON, DC 20001-4413			ART UNIT	PAPER NUMBER	
WASHINGTO	1, 50 20001 1113	2891			
SHORTENED STATUTOR	Y PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE		
3 MONTHS 03/08/2007			PAPER		

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

Office Action Summary		Applicati	Application No.		Applicant(s)		
		10/766,4	68	TAY ET AL.			
		Examine		Art Unit			
			Reames	2891			
- The MAILING DATE of this communication appears on the cover sheet with the correspondence address - Period for Reply							
WHIC - Exter after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR R CHEVER IS LONGER, FROM THE MAILIN nsions of time may be available under the provisions of 37 C SIX (6) MONTHS from the mailing date of this communicatio p period for reply is specified above, the maximum statutory p re to reply within the set or extended period for reply will, by reply received by the Office later than three months after the ed patent term adjustment. See 37 CFR 1.704(b).	IG DATE OF THE FR 1.136(a). In no evon. period will apply and w statute, cause the app	HIS COMMUNICATION ent, however, may a reply be tin ill expire SIX (6) MONTHS from lication to become ABANDONE	N. nely filed the mailing date of this D (35 U.S.C. § 133).			
Status							
1) 又	Responsive to communication(s) filed on	1/12/2007.					
·	This action is <b>FINAL</b> . 2b)⊠ This action is non-final.						
3)	Since this application is in condition for all	lowance except	for formal matters, pro	secution as to th	ne merits is		
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims							
4)🛛	Claim(s) 1-4,6 and 9-14 is/are pending in	the application.					
	4a) Of the above claim(s) is/are withdrawn from consideration.						
5)	Claim(s) is/are allowed.				٠,		
6)	Claim(s) <u>1-4,6,9-14</u> is/are rejected.						
7)	Claim(s) is/are objected to.		•				
8)□	Claim(s) are subject to restriction a	and/or election r	equirement.				
Application Papers							
9)□	The specification is objected to by the Exa	miner.					
-	The drawing(s) filed on is/are: a)		Objected to by the B	Examiner.			
,	· · · · · · · · · · · · · · · · · · ·	•	_ ,				
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) Some * c) None of:							
1. ☐ Certified copies of the priority documents have been received.							
Certified copies of the priority documents have been received in Application No							
Copies of the certified copies of the priority documents have been received in Application No      Copies of the certified copies of the priority documents have been received in this National Stage							
application from the International Bureau (PCT Rule 17.2(a)).							
* See the attached detailed Office action for a list of the certified copies not received.							
				•			
Attachma-	We)						
Attachment(s)  1) Notice of References Cited (PTO-892)  4) Interview Summary (PTO-413)							
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date.							
3) Information Disclosure Statement(s) (PTO/SB/08)  Paper No(s)/Mail Date							
Paper No(s)/Mail Date 6) Uther:							

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## **DETAILED ACTION**

## Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1-4,6,9-14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hoshiba (D505,396).
  - a. As to claims 1 and 10, Hoshiba teaches an optoelectronic component based on a surface mount technology, the optoelectronic component comprising: an electrically conductive frame to form a base for an assembly (see eg. fig.5 and 6); an opaque material to form a housing for the assembly (see figs.); a cavity formed within the material (see fig. 6); at least one protrusion extending from a side surface of the housing to provide heat dissipation, the leads inherently dissipate heat; and at least one optoelectronic chip mounted in the cavity (see fig.6), wherein the base protrudes from a middle portion (see figs.) to a bottom surface (the lead wraps around) and two other side surfaces of the optoelectronic component (see figs), the bottom surface and the two other side surfaces of the optoelectronic component providing external mounting connection terminals (see figs).

Hoshiba does not teach a plastic material.

However it would have been obvious to one of ordinary skill in the art at the time of the invention to use plastic for the housing.

One would have been so motivated to reduce cost and to provide a light durable housing.

- b. As to claims 3 and 13, Hoshiba teaches a metallic wire (see fig. 6).
- c. As to claims 4 and 14, Hoshiba teaches the external mountings terminals can be used for external subsystems.
- d. As to claim 6, Hoshiba teaches wherein the base protrudes outside the plastic material.
- e. As to claims 9 and 12, Hoshiba teaches the device can be externally connected with out leads.
- f. As to claims 2 and 11 Hoshiba does not explicitly filling the cavity with transparent resin.

However, it would have been obvious to one of ordinary skill in the art at the time of the invention to have filled the cavity with a transparent resin.

One would have been so motivated in order to incorporate downcoverting phosphor for varying shades of white, or structural stability of the package or even to decrease vibrations in the base material.

## Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Matthew L. Reames whose telephone number is (571)272-2408. The examiner can normally be reached on M-Th 6:30-5:00.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, B. William Baumeister can be reached on (571)272-1722. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

MLR

B. WILLIAM BRUMEISTER
SUPERVISORY PATENT EXAMINED